Pearson Education, Inc., publishing as Prentice Hall

CME Project: Algebra 2 Student Edition

Focus on developing students' Habits of Mind - ways students approach and solve mathematical challenges. Includes congruence, dissections and area, similarity, circles, coordinates and vectors, geometric optimization.

Teacher Edition

0133500233 $91.97
CME Project: Algebra 2 Teacher's Edition

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ISBN
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Contract Price
$74.97

Grade
9, 10, 11, 12

TYPE
P1

Copyright
2009

Author
Center for Mathematics Education et al.

Edition
1st

Content
Algebra 2

Readability
880L

Accessibility
Nimas

Research
http://main.edc.org/Search/viewProject.asp?projectID=3295

Provided by the Publisher

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CME Project: Algebra 2 Student Edition			
Type - P1	Author - Center for Mathematics Education et al.		
Copyright - 2009	Edition - 1st	Readability - 880L	
Course - Algebra 2		Grade(s) - 9, 10, 11, 12	
Teacher Edition ISBN if applicable 0133500233			

Provided by the Publisher

Overall Recommendation: **Recommended as BASAL**

if this box is not checked, the evaluators have chosen NOT recommend as basal

Overall Strengths, Weaknesses, Comments:

The text provides a unique format for instruction based on research. The problems, however, lack the intrigue or engagement to hold non-motivated students. The goal of the book is to develop mathematical habits of mind. There is little differentiation and ESL support.

NIMAC Accessibility	N	
Ancillary	No	
Free with Purchase	Yes	
Research	Yes	http://main.edc.org/Search/viewProject.asp?projectID=3295

Focus on developing students' Habits of Mind - ways students approach and solve mathematical challenges. Includes congruence, dissections and area, similarity, circles, coordinates and vectors, geometric optimization.

CRITERIA

This basal resource …

A. Encompasses KY Content Standards & Grade Level Expectations **Strong Evidence**

Text is designed to be used in an elective course outside the Program of Studies

1) Includes the 5 Big Ideas of mathematics to the following extent:	
a) Number Properties and Operations	Strong Evidence
b) Measurement	Strong Evidence
c) Geometry	Moderate Evidence
d) Data Analysis and Probability	Not Applicable
e) Algebraic Thinking	Strong Evidence
2) Addresses content-specific enduring understandings from the related Program of Studies standards.	Strong Evidence
3) Addresses content-specific skills and concepts from the related Program of Studies standards.	Strong Evidence

4) Content addressed is current, relevant and non-trivial Strong Evidence

5) Provides opportunities for critical thinking/reasoning Strong Evidence

6) Strengths, Weaknesses, Comments:

- Specific strengths-which areas/concepts are covered exceptionally well?
- Specific weaknesses-which areas/concepts would likely require supplementing?

The text does not contain absolute value functions or inequalities. If this is part of the Algebra 2 curriculum, this book is not appropriate.

B. Functionality & Suitability — Moderate Evidence

1) Suitability — Moderate Evidence

- Should be suitable for use with a diverse population and is free of bias regarding race, age, ethnicity, gender, religion, social and/or geographic environment; is free of stereotyping or bias of any kind.

2) Content quality — Moderate Evidence

- Free from factual errors
- Content is presented conceptually when possible—more than a mere collection of facts
- Content included accurately represents the knowledge base of the discipline
- Theories/scientific models contained represent a broad consensus of the scientific community
- Interconnections among mathematical topics

3) Connections to Literacy — Moderate Evidence

- Employs a variety of reading levels and is grade/level appropriate
- Use of multiple representations-concrete, visual/spatial, graphs, charts, etc.
- Provides opportunities for summarizing, reviewing, and reinforcing vocabulary skills and concepts at multiple levels of difficulty for a variety of learning styles.
- Student text provides opportunity to integrate reading and writing
- Uses vocabulary that is age and content appropriate
- Focuses on critical vocabulary vs. extensive lists
- Identifies key vocabulary through definitions in both text and glossary
- The text is engaging and facilitates learning
- Embedded activities enhance the understanding of the text
  Note: may apply to either student or teacher editions

4) Connections to Technology — Strong Evidence

- Integrates technology and reflects the impact of technological advances
- Uses technology in the collection and/or manipulation of authentic data
- Embeds web links as a mathematics resource.

5) Support for Diverse Learners — Moderate Evidence

- Provides support for ESL students
- Provides support for differentiation of instruction in diverse classrooms

- Challenge for gifted and talented students
- Support for students with learning difficulties
  Note: may apply to either student or teacher editions

6) Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

For most lessons there is a graphing calculator activities with full instructions in the teacher edition. There is no ESL or students with learning difficulties support materials. Students can read an engaging conversation and learn about math in different way "Minds in action"-episodes. There are challenges for gifted students.

C. Supports Inquiry and Skill Development — Strong Evidence

1) Promotes Inquiry, research and Application of Learning — Moderate Evidence

- Provides opportunities for inquiry and research that includes activities such as gathering information, researching resources, observing, interviewing, and evaluating information, analyzing and synthesizing data and communicating findings and conclusions, formulating authentic questions to deepen and extend mathematical reasoning.
- Requires students to use higher-level cognitive skills (analysis, synthesis, evaluation, generalizing, justifying, etc.)
- Provides activities and projects for students to deepen their knowledge and cultivate and strengthen problem-solving and decision-making skills.
- Provides opportunities for application of learned concepts.
- Uses a variety of relevant charts, graphs, diagrams, number lines, and other illustrations to invite and motivate students to engage in discussion, problem solving, and other high-order thinking skills.
- Emphasizes conceptual understandings that invite students to predict, conclude, evaluate, develop and extend ideas to support reasoning.
  Note: may apply to either teacher or student edition

2) Skill Development — Strong Evidence

- Provides opportunities to make sense of all mathematics
- Provides opportunities to recognize, create, and extend patterns.
- Provides opportunities for critical thinking and reasoning.
- Provides opportunities to justify/prove responses.
- Provides opportunities to ask deeper questions.
- Contains embedded activities (or extensions) that emphasize use of technology for problem solving
  Note: may apply to either teacher or student edition

3) Strengths, Weaknesses, Comments:

There is a good use of varying questioning levels. There are not many activities for the student (one at the end of each chapter); mainly different practice exercises. These exercises do require higher-order thinking and responses. The book is focused on developing "habits of mind" for mathematical thinking in the students.

D. Supports Best Practices of Teaching and Learning — Moderate Evidence

1) Engages Students

Moderate Evidence

- Includes content geared to the needs, interests, and abilities of all students
- Engages and motivates students using components such as real-life situations, simulations, experiments, and data gathering.
- Includes information and activities that assist students in seeing relevance of concepts (where appropriate) to their own lives and experiences
- Provides a variety of strategies, activities, and materials to enhance student learning at the appropriate learning levels
- Activities are truly congruent to the concepts addressed, not merely correlated
  Note: may apply to either teacher or student edition

2) Uses Assessment to Inform Instruction

Moderate Evidence

- Includes multiple means of assessment as an integral part of instruction
- Provides evaluation measures in the teacher edition that supports differentiated learning activities
- Embedded assessments reflect a variety of Depth of Knowledge levels
  Note: may apply to either teacher or student edition

3) Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards

Text is written to engage students in the material and get them involved in a mathematical conversation. However, the more complex topics are purely mathematical and don't necessarily relate to the students. For each lesson there are checks for understanding, individual exercises, and review questions from previous material. These provide the students with multiple levels of assessment. There are only chapter tests for the instructor to use which are also available to the students.

E. Has an Organization/ Format that Supports Learning and Teaching — Moderate Evidence

1) Organizational Quality

Choose an item.

- Print and/or electronic materials present minimal barriers to learners, but also add encouragement for students to stretch and make further explorations.
- Presents chapters/lessons in an organized and logical sequence
- Provides clearly stated objectives for each lesson.
- Uses text features (e.g., titles, headings, subheadings, review questions, goals, objectives, space, print, type size, color) to enhance readability.
- Makes use of various forms of media (e.g., CD's, recordings, videos, cassette tapes, computer software, web-based components, interactive software, calculators, physical and virtual manipulatives) as either student or teacher resources
- Includes clear, accurate, appropriate and clearly explained illustrations and/or graphics that

reinforce content standards.
- Incorporates a glossary, footnotes, recordings, pictures, and/or tests that aid pupils and teachers in using the book effectively
- Uses grade-appropriate type size
- Included media are durable, easy to use and have technical merit
- Construction appears to be durable and able to withstand normal use

2) Essential Components (beyond student and teacher text) Little or No Evidence

- Items identified as essential components support the learning goals and concept coverage of the basal

3) Strengths, Weaknesses, Comments:
- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

The text tries to engage students, but real-life examples are lacking. There are not references to outside sources. The explanations are clear but not intriguing to students. The reading level is age appropriate. The objectives or goals are only located in the teacher edition.

F. Has available Ancillary/ Gratis Materials

Note: The decision whether to recommend or not recommend this resource as a basal should not be influenced by Section F

Moderate Evidence

1) Ancillary/Gratis Materials
- Coordinates teacher resources easily with student material (e.g., accompaniments included, student pages shown, instructional technology indicated).
- Are well-organized and easy to use
- Provide substantive learning opportunities and are congruent with student learning goals
- Provide opportunities for high-level thinking, assessment, and/or problem solving
- Provides opportunities for intervention.

2) Strengths, Weaknesses, Comments:
- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

There is only a practice workbook for the students as ancillary material. This book only has extra practice problems for each lesson.